

CRF Errors Corrected by the STIC Systems Branch

0580  
0307  
OPE #7

CRF Processing Date: 3/18/2002  
Edited by:      
Verified by:     (STIC staff)

Serial Number: 09/972,741

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIPE

## RAW SEQUENCE LISTING

DATE: 03/18/2002

PATENT APPLICATION: US/09/972,741

TIME: 08:24:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\03182002\I972741.raw

```

4 <110> APPLICANT: Allen, Keith D.
6 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING
7   MAGNESIUM-DEPENDENT PROTEIN PHOSPHATASE GENE DISRUPTIONS
10 <130> FILE REFERENCE: R-723-CIP
12 <140> CURRENT APPLICATION NUMBER: US 09/972,741
C--> 13 <141> CURRENT FILING DATE: 2001-10-08
15 <150> PRIOR APPLICATION NUMBER: US 09/815,935
16 <151> PRIOR FILING DATE: 2001-03-22
18 <150> PRIOR APPLICATION NUMBER: US 60/191,235
19 <151> PRIOR FILING DATE: 2000-03-22
21 <150> PRIOR APPLICATION NUMBER: US 60/216,249
22 <151> PRIOR FILING DATE: 2000-07-06
24 <160> NUMBER OF SEQ ID NOS: 4
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 1387
30 <212> TYPE: DNA
31 <213> ORGANISM: Mus musculus
33 <400> SEQUENCE: 1
34 cccgggccccg gccgcgcgtcg cgggacccccg tgccccggccc ccgtcgccac cgccgcccccg 60
35 gccgaccgag ggaccgcgcc gccgcgcgct gctccggacc tagaggatca agtcataatg 120
36 ggagcatttt tagacaagcc aaagatggag aagcataatg cccaggggca ggggaatggg 180
37 ttacgatacg gcctaagcag catgcaaggt tggcgagttg aaatggagga cgcacacacg 240
38 gctgtgatcg gtttgccaag tggacttgag acatggatcat tctttgctgt atatgatggg 300
39 catgctggtt ctcaggttgc caaatactgc tgtgagcact tgtagatca catcaccaat 360
40 aaccaggatt tcagaggatc tgcaggagca cttctgtgg agaacgtaaa gaatggaatc 420
41 agaacagggt ttctggagat tgatgaacac atgagagtta tgtcagagaa gaaacatggt 480
42 gcagatagaa gcgggtcaac agctgtgggc gtcttaatct ctccccaaca tacttatttc 540
43 attaactgtg gagactcgag aggtttactt tgtaggaata gaaaagttca cttcttcaca 600
44 caagaccata aaccaagtaa cccgctggaa aaagaacgaa ttcagaatgc agggggctcg 660
45 gtgatgattc agcgtgtcaa tggctctctg gctgtatcga gggcccttgg ggatttcgat 720
46 tacaaatgtg tccatggaaa aggtcccaca gacgagcttg tctcccaga gcccgaaatc 780
47 catgatattg aaaggtctga agaagatgac cagttcatca tccttgcatg cgatggcatc 840
48 tgggacgtca tggggaacga agagctctgt gactttgtga gatccagact tgaagtcact 900
49 gatgaccttg agaaagtttg caatgaagta gtcgacacct gcttgataaa gggaagtcga 960
50 gacaacatga gtgtgatttt gatctgtttt ccaagtgcac ccaaagtctc ggagaggcgc 1020
51 gtgaagaagg aggcggagct ggacaagtac ctggagagca gagtagaaga aatcataaag 1080
52 aagcaggtgg aagcgcgtcc tgacttagtc cagctgatgc gcacgttagc cagtgaagac 1140
53 atccccagcc tcccaccagg ggggtgaattg gcaagcaagc ggaatgtaat tgaagccgtt 1200
54 tacaatagac tgaaccctta caaaaatgac gacactgatt ctgcgtcaac cgatgatatg 1260
55 tggtaaagcc gctcacccag ccgtggactc accttcgcct gcaaagggga agccagctca 1320
56 tccttgccga gcctttacca tccatcacgc acttcacagg aggggtctgac acgggtgagg 1380
57 actgcag 1387

```

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```

59 <210> SEQ ID NO: 2
60 <211> LENGTH: 382
61 <212> TYPE: PRT
62 <213> ORGANISM: Mus musculus
64 <400> SEQUENCE: 2
65 Met Gly Ala Phe Leu Asp Lys Pro Lys Met Glu Lys His Asn Ala Gln
66 1 5 10 15
67 Gly Gln Gly Asn Gly Leu Arg Tyr Gly Leu Ser Ser Met Gln Gly Trp
68 20 25 30
69 Arg Val Glu Met Glu Asp Ala His Thr Ala Val Ile Gly Leu Pro Ser
70 35 40 45
71 Gly Leu Glu Thr Trp Ser Phe Phe Ala Val Tyr Asp Gly His Ala Gly
72 50 55 60
73 Ser Gln Val Ala Lys Tyr Cys Cys Glu His Leu Leu Asp His Ile Thr
74 65 70 75 80
75 Asn Asn Gln Asp Phe Arg Gly Ser Ala Gly Ala Pro Ser Val Glu Asn
76 85 90 95
77 Val Lys Asn Gly Ile Arg Thr Gly Phe Leu Glu Ile Asp Glu His Met
78 100 105 110
79 Arg Val Met Ser Glu Lys Lys His Gly Ala Asp Arg Ser Gly Ser Thr
80 115 120 125
81 Ala Val Gly Val Leu Ile Ser Pro Gln His Thr Tyr Phe Ile Asn Cys
82 130 135 140
83 Gly Asp Ser Arg Gly Leu Leu Cys Arg Asn Arg Lys Val His Phe Phe
84 145 150 155 160
85 Thr Gln Asp His Lys Pro Ser Asn Pro Leu Glu Lys Glu Arg Ile Gln
86 165 170 175
87 Asn Ala Gly Gly Ser Val Met Ile Gln Arg Val Asn Gly Ser Leu Ala
88 180 185 190
89 Val Ser Arg Ala Leu Gly Asp Phe Asp Tyr Lys Cys Val His Gly Lys
90 195 200 205
91 Gly Pro Thr Glu Gln Leu Val Ser Pro Glu Pro Glu Val His Asp Ile
92 210 215 220
93 Glu Arg Ser Glu Glu Asp Asp Gln Phe Ile Ile Leu Ala Cys Asp Gly
94 225 230 235 240
95 Ile Trp Asp Val Met Gly Asn Glu Glu Leu Cys Asp Phe Val Arg Ser
96 245 250 255
97 Arg Leu Glu Val Thr Asp Asp Leu Glu Lys Val Cys Asn Glu Val Val
98 260 265 270
99 Asp Thr Cys Leu Tyr Lys Gly Ser Arg Asp Asn Met Ser Val Ile Leu
100 275 280 285
101 Ile Cys Phe Pro Ser Ala Pro Lys Val Ser Ala Glu Ala Val Lys Lys
102 290 295 300
103 Glu Ala Glu Leu Asp Lys Tyr Leu Glu Ser Arg Val Glu Glu Ile Ile
104 305 310 315 320
105 Lys Lys Gln Val Glu Gly Val Pro Asp Leu Val His Val Met Arg Thr
106 325 330 335
107 Leu Ala Ser Glu Asn Ile Pro Ser Leu Pro Pro Gly Gly Glu Leu Ala
108 340 345 350

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```

109 Ser Lys Arg Asn Val Ile Glu Ala Val Tyr Asn Arg Leu Asn Pro Tyr
110      355      360      365
111 Lys Asn Asp Asp Thr Asp Ser Ala Ser Thr Asp Asp Met Trp
112      370      375      380
115 <210> SEQ ID NO: 3
116 <211> LENGTH: 200
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Targeting vector
123 <400> SEQUENCE: 3
124 gcaacacaat gcttgtaggt atagcctgtg agtttttcca gcttccttgt atcttataga 60
125 ttctgggtaa agagtgttgg acatgttttg tttcaaaggc aatcacttat tttcttattt 120
126 ctcttccttt acagacctag aggatcaagt cataatggga gcatttttag acaagccaaa 180
127 gatggagaag cataatgccc                200
129 <210> SEQ ID NO: 4
130 <211> LENGTH: 200
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Targeting vector
137 <400> SEQUENCE: 4
138 ctgctgtgag cacttgtagg atcacatcac caataaccag gatttcagag gatctgcagg 60
139 agcaccttct gtggagaacg taaagaatgg aatcagaaca gggtttctgg agattgatga 120
140 acacatgaga gttatgtcag agaagaaaca tgggtgcagat agaagcgggt caacagctgt 180
141 gggcgtctta atctctcccc                200

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/972,741

DATE: 03/18/2002

TIME: 08:24:30

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Output Set: N:\CRF3\03182002\I972741.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date